

File: MEK

U.S. ENVIRONMENTAL PROTECTION AGENCY

EPA-REGION II  
OFFICE OF EMERGENCY &  
REMEDIAL RESPONSE

POLLUTION REPORT

1984 OCT 25 - PM 1:23

DATE: October 22, 1984 DIRECTOR'S OFFICE

Region II  
Response and Prevention Branch  
Edison, NJ 08837

(201) 321-6670 - Commercial  
(201) 548-8730 - 24 Hr. Emergency  
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TO: C. Daggett, EPA  
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(Data Gram)  
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G. Donohue, Nassau County  
Dept. of Health  
J. Schechter, Nassau County  
Dept. of Health  
TAT

POLREP NO.: Thlrty-Slx (36)  
INCIDENT NAME: Hicksville MEK  
SITE/SPILL NO.: 246-82, CERCLA No: 36  
POLLUTANT: Methyl Ethyl Ketone  
CLASSIFICATION: Medium  
SOURCE: Mattiace Petrochemical Co., Glencove, New York  
LOCATION: Hicksville, Long Island  
AMOUNT: Approximately 3,000 Gallons  
WATER BODY: Groundwater

1. SITUATION:

A. Planned removal activities on site under contract for services #68-01-6893 with O.H. Materials Company have been concluded. On site stripping operations were completed on October 9, 1984, equipment demobilization was completed October 15, 1984. Site rehabilitation was completed on October 15, 1984 with the exception of removal and disposal of the process area ballast material.

2. ACTION TAKEN:

A. As of 10/9/84, approximately 5,719,299 gallons of groundwater, averaging 49.9 ppm, have been pumped out of the ground. Of this, an estimated 503,298 gallons were lost to evaporation and an estimated 5,216,001 gallons of groundwater were successfully treated to NYSDOH specified limits and reinjected.

B. Influent concentrations fell from the initial high of about 800 ppm to just over 1 ppm from the on-site extraction wells, but

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rose to peak at 7.1 ppm as an apparent result of heavy rain stripping MEK vapors from the ground into the groundwater.

C. The system operated continuously except for periodic maintenance from June 6, 1984 until October 9, 1984.

D. An attempt at biodegradation did not produce conclusive results. During this attempt 24,000 gallons of nutrient solution were introduced into the soil. For a time, encouraging results seemed to indicate effective biodegradation. However, rising MEK levels between 9/27/84 to 10/8/84 appear to negate prior declining MEK analyses. Final judgment of the effectiveness of this trial cannot be made at this time pending future sampling.

3. STATUS OF FUNDS:

A. Total Extramural Trust Funds  
Authorized for Mitigation  
Contracts \$ 900,000.00

B. Expenditures for Mitigation

1.a. Amount obligated under ERCS  
Contract #68-01-6893, O.H.  
Materials, Order for Services  
Number 2893-02-002 dated  
2/13/84 (DCN #D2D013) 500,000.00

1.b. Estimated expenditures to  
7/29/84 under (DCN #D2D013) 500,000.00

1.e. Balance of obligated amount  
under (DCN #D2D013) as of 6/24/84 -0-

2.a. Amount obligated under ERCS  
Contract #68-01-6893, O.H.  
Materials, Order for services  
Number 6893-02-002 modified  
7/28/84 (DCN #KCS407) 323,550.00

2.b. Estimated expenditures to  
9/24/84 under (DCN #KCS407) 323,550.00

2.c. Balance of obligated amount  
under (DCN #KCS407) as of  
9/24/84 -0-

3.a. Amount obligated under ERCS  
contract #68-01-6893, OH Mate-  
rial (DCN # KCS407) 76,450.00

3.b. Estimated expenditures to  
10/16/84 under (DCN # KCS407) 50,210.08

3.e. Balance of obligated amount under (DCN # KCS407) as of 10/16/84	26,239.92
C. Balance of unobligated authorized funding	-0-
D. Estimated total expenditures to 9/24/84 for mitigation contracts	873,760.08
E. Other estimated costs	
a. TAT costs to date through 10/19/84	54,902.00
F. Intramural costs	
a. EPA to date through 8/14/84	32,836.02
G. Total estimated expenditures to 9/21/84 Percentage of IM	\$ 961,498.10 (96.15% IM)

4. FUTURE PLANS AND RECOMMENDATIONS:

- A. Process area ballast material will be removed prior to November 7, 1984.
- B. A final OSC report will be completed and distributed.

CASE PENDING X

CASE CLOSED \_\_\_\_\_

SUBMITTED BY: Robert M. Cobiella

(TAT)

Robert Cobiella, OSC  
Site Mitigation  
Section

Date Released: 10/22/84